

Applicant : Jan K. Schiffmann et al.
Appln. No. : 10/780,845
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In the Specification:

Please replace paragraph [0004] with the following rewritten paragraph:

It has been proposed to reduce the complexity and cost of a vehicle collision detection system by employing a single radar sensor that provides range and range rate measurements of an object and estimates the miss distance of the object. One such approach is disclosed in U.S. Patent No. 6,615,138, and entitled "COLLISION DETECTION SYSTEM AND METHOD OF ESTIMATING MISS DISTANCE EMPLOYING CURVE FITTING." The entire disclosure of the aforementioned patent is hereby incorporated herein by reference. Another approach is disclosed in U.S. ~~Application Serial No. 10/158,550, filed on May 30, 2002,~~ Patent No. 7,016,782 and entitled "COLLISION DETECTION SYSTEM AND METHOD OF ESTIMATING MISS DISTANCE." The entire disclosure of the aforementioned application is hereby incorporated herein by reference. While the aforementioned approaches employing a single radar sensor are well suited to estimate the miss distance of an object, additional information such as the crossing location with respect to the vehicle is generally not available. In some situations, it may be desirable to determine the crossing location of the object with respect to the host vehicle, such as a location on the vehicle front bumper that the object is expected to come into contact with. By knowing the location of the expected collision, countermeasures can be initiated based on the anticipated crossing location.